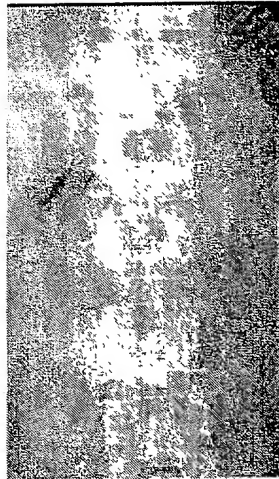
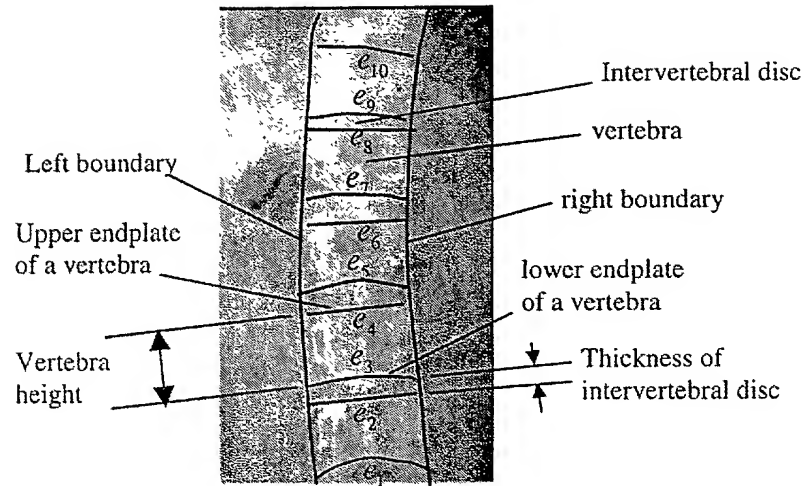


Figure 1

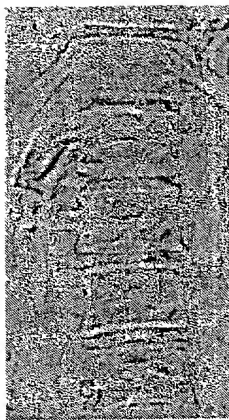


(a)

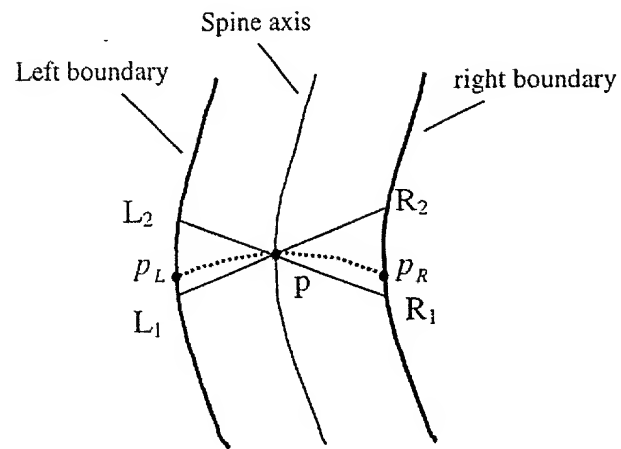


(b)

Figure 2

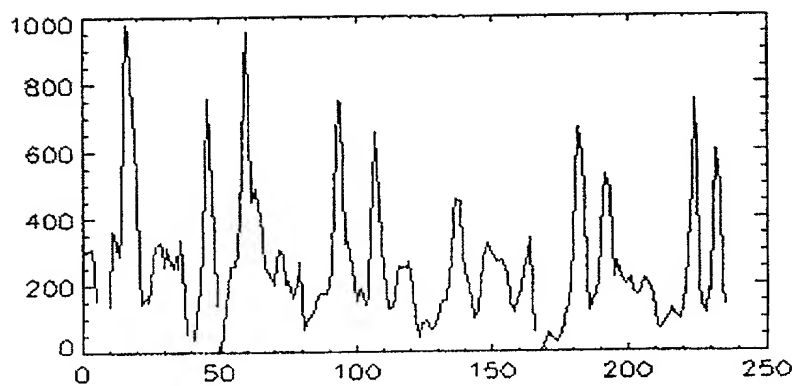


(a)

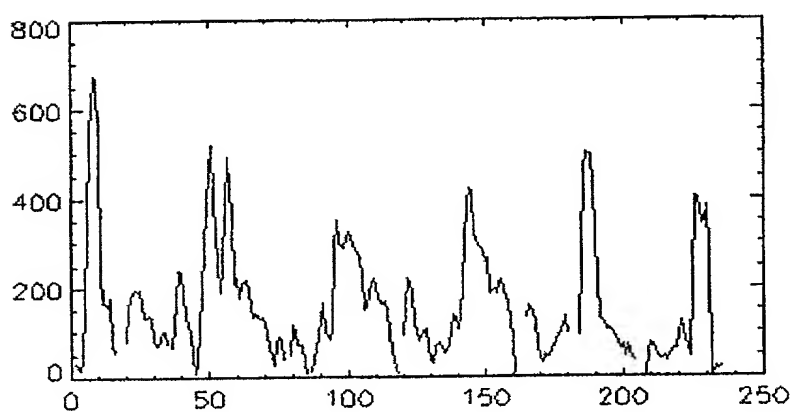


(b)

Figure 3



(a)



(b)

Figure 4

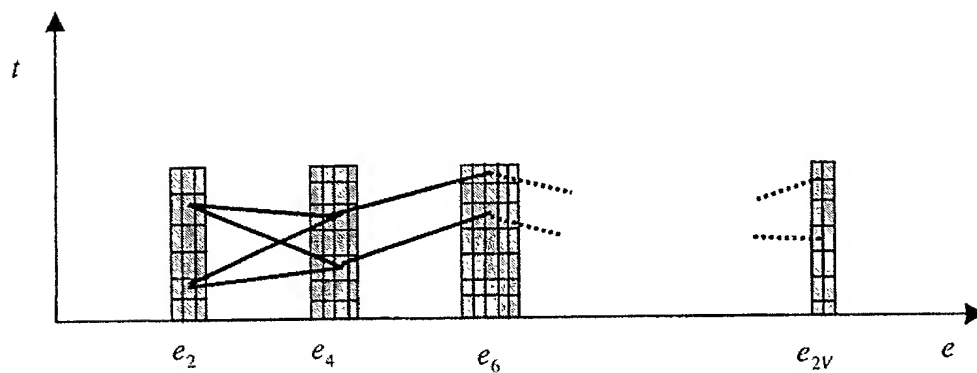


Figure 5

Get the range of the first and last endplates

Use the range of the first endplate and local constraints about vertebra shape to determine the range of the first layer in dynamic programming


Use local constraints about vertebra shape to determine the range of the endplates in the next layer

Range out of that
of the last
endplate ?

Yes

Find the maximum score of the last layer

Back tracking from the maximum score position to find the endplate position



Flowchart 665 shows a rectangular box labeled "End" with a downward arrow pointing to it from above.

Do backward tracing for each element in the last layer and get the vertebra height profile

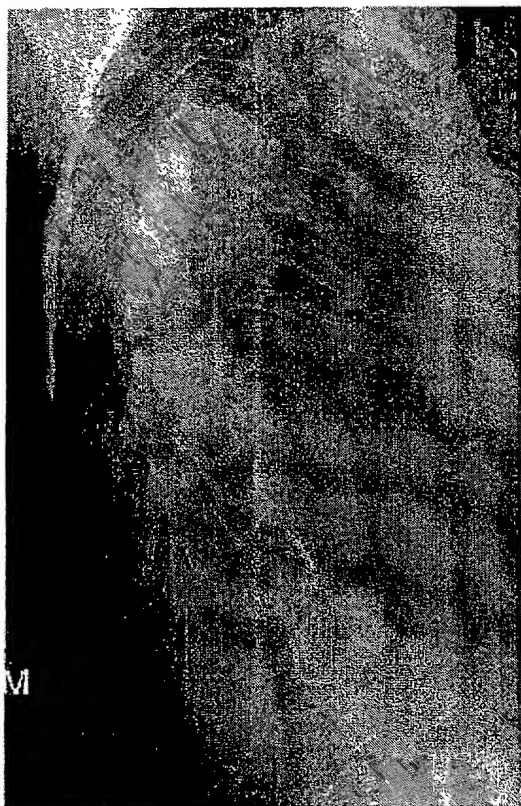
For each element at the current layer, fit the augmented height profile by the height model

Check the residual of the fitting. If the residual maximum is greater than a threshold, discard the current element

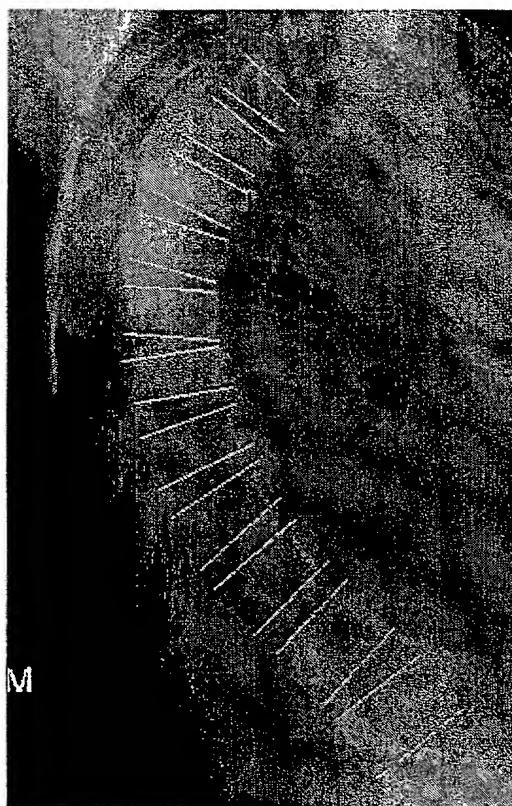
Score computation by forward propagation

Figure 6

00T3T0" 9609T00T



(a)



(b)

Figure 7